

Abstract

A magnetic recording medium on glass or Al substrates with a film structure of Cr-X or (Cr-X)O_x seedlayer/underlayer/magnetic layer/carbon overcoat, in which the solid solubility of X is at least 3 atomic percent in Cr, the heat of oxide formation
5 of X is less than that of Cr or a lattice tuning capability of X is at least 2% that of Cr and a manufacturing process thereof are disclosed.